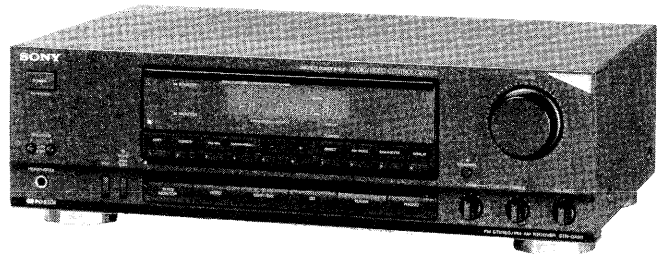
# STR-GX311

# SERVICE MANUAL

*AEP Model*



R·D·S EON

## SPECIFICATIONS

### Amplifier section

| | Model for Scandinavian countries, Switzerland, Spain and Portugal | Model for other countries |
|---|---|---|
| DIN, 1 kHz | 60 W + 60 W (8 ohms) | 70 W + 70 W (4 ohms) 60 W + 60 W (8 ohms) |
| 20 Hz – 20 kHz THD 0.3 % | 40 W + 40 W (8 ohms) | 50 W + 50 W (4 ohms) 40 W + 40 W (8 ohms) |

Harmonic distortion
Less than 0.8% at rated output
Frequency response
PHONO: RIAA equalization curve ±0.5 dB
CD, VIDEO, TAPE: 10 Hz - 50 kHz $^{+0}_{-3}$ dB

Inputs

| | Sensitivity | Impedance | S/N (weighting network, input level) |
|---|---|---|---|
| PHONO | 2.5 mV | 50 kilohms | 74 dB |
| CD, VIDEO TAPE 1, 2 | 200 mV | 50 kilohms | 95 dB |

Outputs

| | |
|---|---|
| REC OUT, VIDEO (AUDIO) OUT | Voltage 200 mV Impedance 10 kilohms |
| SPEAKER A, B | Accepts speakers of 8-16 ohms |
| HEADPHONES | Accepts low and high impedance headphones |

Tone controls
BASS: ±10 dB at 100 Hz
TREBLE: ±10 dB at 10 kHz
Loudness
+6 dB (100 Hz)

— Continued on next page —

FM STEREO/FM-AM RECEIVER

SONY®

**Tuner section**

| | FM tuner section | AM tuner section |
|---|---|---|
| Tuning range | 87.5 – 108 MHz | 531 – 1602 kHz |
| Antenna | 75 ohms, unbalanced | External antenna terminal |
| Sensitivity at 50 dB quieting | 18.3 dBf, 2.2 µV (mono)<br>40 dBf, 24.5 µV (stereo) | — |
| Usable sensitivity | 11.2 dBf, 1 µV (IHF) | Loop antenna:<br>300 µV (at 999 kHz) |
| Signal-to-noise ratio | 70 dB (mono)<br>66 dB (stereo) | 54 dB (at 50 mV/m) |
| Harmonic distortion | 0.3% (mono), 0.5% (stereo) at 1 kHz | 0.5% (at 50 mV/m, 400 Hz) |
| Selectivity | 60 dB at 400 kHz | 30 dB at 10 kHz |
| Separation | 45 dB at 1 kHz | — |
| Frequency response | 30 Hz — 15 kHz $^{+0.5}_{-2}$ dB | — |

**General**

System
Tuner section: PLL quartz-locked digital synthesizer system
Preamplifier section: low-noise NF type equalizer amp
Power amplifier section: pure complementary SEPP
Power requirements
220 – 230 V AC, 50/60 Hz
Power consumption
Model for Scandinavian countries, Switzerland, Spain and Portugal: 110 W
Model for other countries: 160 W
AC outlet
One switched (100 W Max.)
Dimensions
Approx. 430 x 135 x 305 mm (w/h/d)
(17 x 5 3/8 x 11 7/8 inches)
including projecting parts and controls
Weight:
Approx. 6.2 kg (13 lb 1 oz)
Accessories supplied
FM wire antenna (1)
AM loop antenna (1)
Remote Commander RM-S103 (1)
Sony batteries SUM-3(NS) (2)

Design and specifications are subject to change without notice.

**Note**

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

**SAFETY-RELATED COMPONENT WARNING!!**

**COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

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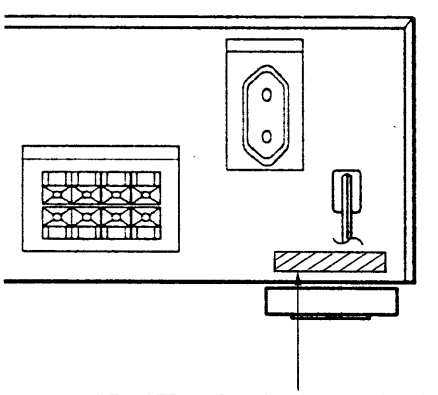
## MODEL IDENTIFICATION

— BACK PANEL —



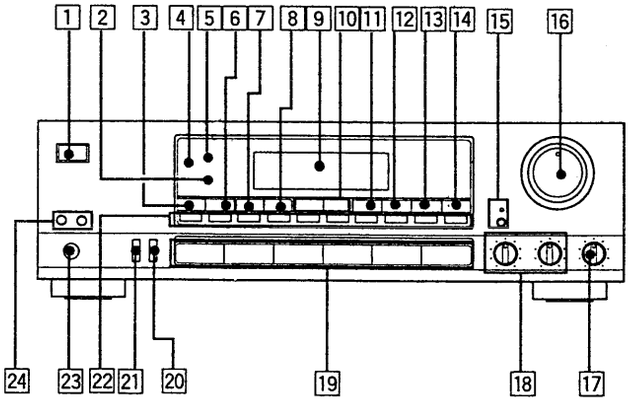
4-957-709-1□ AE2 (AEP2) : Scandinavian countries, Switzerland, Spain and Portugal
4-957-709-0□ AE1 (AEP1) : Other European countries
4-957-709-2□ G : German model

# SECTION 1
# GENERAL

**This section is extracted from instruction manual.**

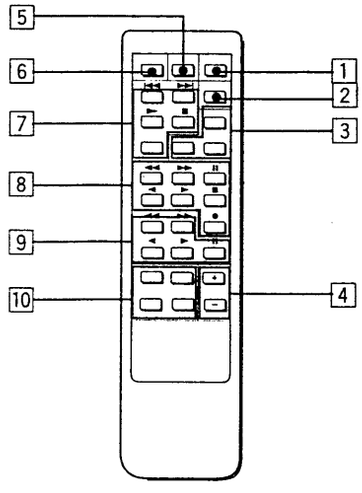
## Identifying Parts and Controls

**STR-GX311**




### Front Panel

1 POWER switch
2 MONITOR indicator (page 58.)
3 SHIFT button (pages 40 and 42.)
4 Remote sensor
5 STANDBY indicator
The STANDBY indicator lights up when the power cord is connected.
6 MEMORY button (pages 30 and 40.)
7 BAND button (pages 34 and 38.)
8 TUNING/PRESET button (pages 38 and 44.)
9 Display window
10 +/– buttons (pages 38 and 44.)
11 TUNING DIRECT button (page 34.)
12 FM MODE button (page 36.)
13 CHARACTER button (page 30.)
14 DISPLAY button (pages 34 and 52.)
15 LOUDNESS button and indicator (page 26.)
16 VOLUME control (page 26.)
17 BALANCE control (page 26.)
18 BASS/TREBLE controls (page 26.)
19 Function selectors
When the TAPE 2 MONITOR is pressed, the indicator of the last selected function also remains lit. But the TAPE 2 MONITOR button has priority and the taped or digital audio taped program can be heard.
20 EON (TA-NEWS-INFO) button (page 54.)
21 PTY button (page 56.)
22 Numeric buttons (pages 34, 40 and 42.)
23 HEADPHONES jack (page 26.)
24 SPEAKERS A/B buttons (page 26.)




### Remote Commander RM-S103

1 POWER button
2 DBFB button*
3 TUNER PRESET +/– and SHIFT buttons
4 VOLUME +/– buttons
5 SURROUND button*
6 MUTING button*
7 CD player operation buttons
D. (disc) SKIP: When your CD player is equipped with a multi-disc changer, use this button to select loaded disc.
CD ►: Selects the CD function and starts CD playback.
8 DECK B operation buttons
(also for single tape deck)
DECK B ◄/►: Select tape function and start tape playback on deck B.
◄◄/►►: Fast winding
II: Pause
■: Stop
●: Recording
9 DECK A operation buttons
DECK A ◄/►: Select tape function and start tape playback on deck A.
◄◄/►►: Fast winding
II: Pause
10 Function select buttons
When one of these buttons is pressed in the STANDBY mode, the power is turned on automatically.

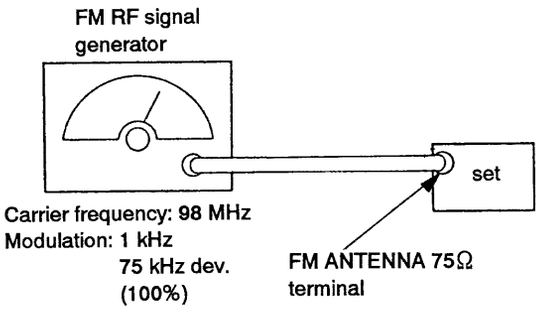
* These buttons does not function for the unit.

**Note on the remote commander**
For the functions other than the receiver's own ones, the remote commander is effective only with Sony components having a remote sensor with a R mark.

# SECTION 2
# ELECTRICAL ADJUSTMENTS

- **FM Signal Level Display Adjustment**

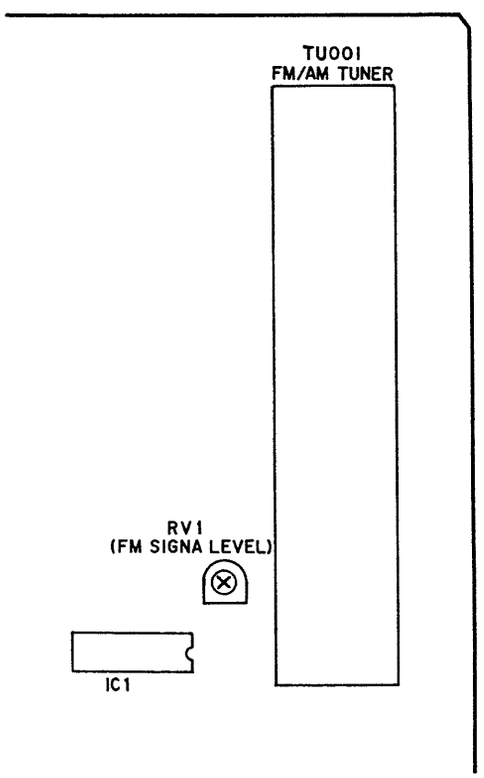
**Setting:**




**Procedure:**

1. Tune the set to 98 MHz.
2. Apply 80 dBμ, 98 MHz signal to the FM antenna terminal.
3. Press the DISPLAY button of the unit to indicate the signal level.
4. Adjust RV1 so that signal level indication is changed from [SIG 71 dB] to [SIG 75 dB].
5. Apply 81 dBμ, 98 MHz signal to the FM antenna terminal.
6. Make sure that the signal level indication is [SIG75▵dB]. If not, repeat step 2 to 6.

[MAIN BOARD] (COMPONENT SIDE)



# SECTION 3
# IC PIN FUNCTIONS

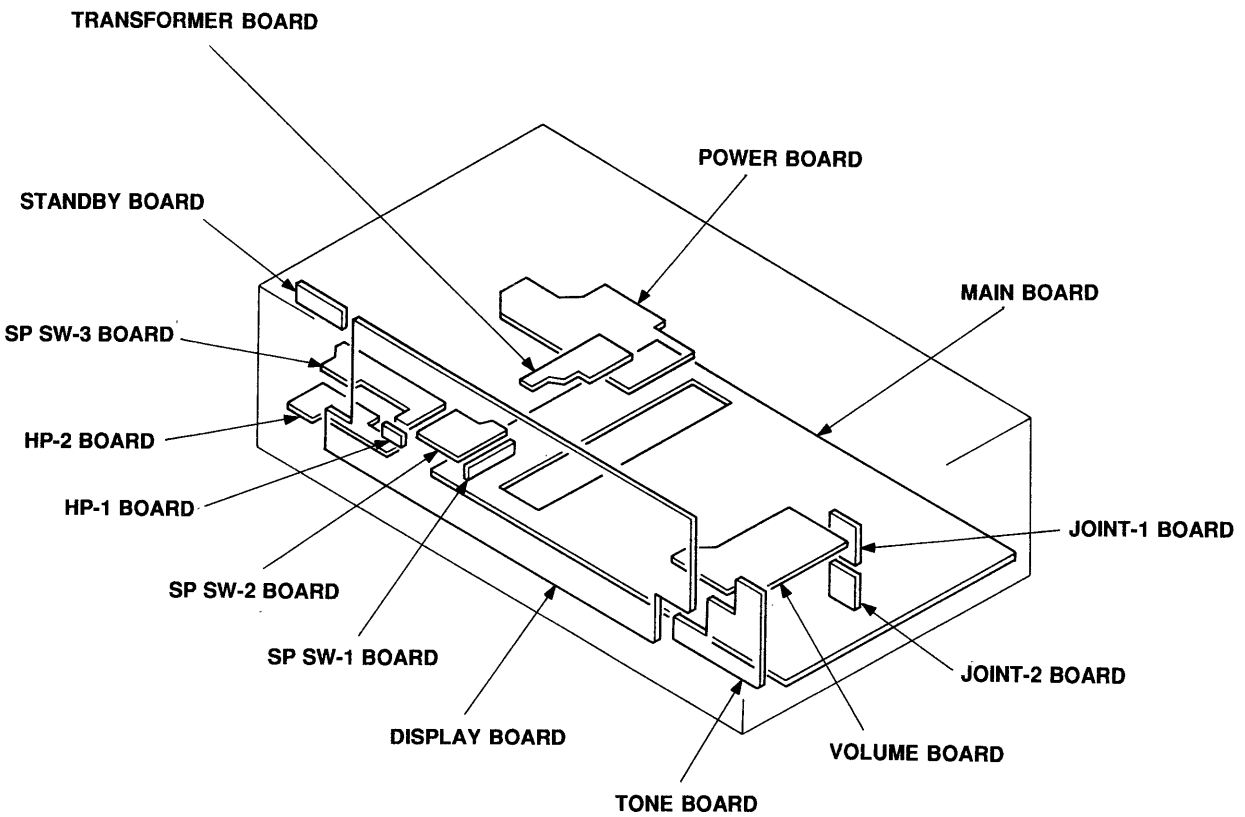
**IC300 SYSTEM CONTROL IC (μPD78043GF-044-3B9)**

| PIN No. | I/O | PIN NAME | FUNCTION |
|---|---|---|---|
| 1 | O | 7G | Drives indicator tube. |
| 2 | O | 6G | Drives indicator tube. |
| 3 | O | 5G | Drives indicator tube. |
| 4 | O | 4G | Drives indicator tube. |
| 5 | O | 3G | Drives indicator tube. |
| 6 | O | 2G | Drives indicator tube. |
| 7 | O | 1G | Drives indicator tube. |
| 8 | – | $V_{DD}$ | 5V |
| 9 | I | RDS-CLOCK | RDS CLOCK input. |
| 10 | | NC | |
| 11 | I | RDS-DATA | RDS DATA input. |
| 12 | O | RDS-RESET | RESET output for LC7073M. |
| 13 | O | LATCH | FUNCTION output for tuner. |
| 14 | O | CLOCK | |
| 15 | O | DATA | |
| 16 | | IF-D | IF COUNT DATA input. |
| 17 | I | $\overline{\text{RESET}}$ | System RESET input. |
| 18 | I | $\overline{\text{A-STOP}}$ | TUNED input. |
| 19 | I | $\overline{\text{STEREO}}$ | "L" when STEREO is received. |
| 20 | – | GND | |
| 21 | I | $\overline{\text{POWER IN}}$ | POWER ON/OFF input. |
| 22 | I | FUNC SEL | Fixed "H". |
| 23 | I | FUN 2 | Input for detecting motor FUNCTION position. |
| 24 | I | FUN 1 | Input for detecting motor FUNCTION position. |
| 25 | I | FUN 0 | Input for detecting motor FUNCTION position. |
| 26 | I | SIGNAL | SIGNAL input. |
| 27 | I | KEY 1 | KEY input port. |
| 28 | I | KEY 0 | KEY input port. |
| 29 | – | A/D $V_{DD}$ | A/D converter power supply. |
| 30 | I | A/D REF | A/D converter power supply reference voltage. |
| 31 | – | GND | |
| 32 | | NC | |
| 33 | – | GND | |
| 34 | I | X1 | Oscillation signal input (4.19MHz). |
| 35 | O | X2 | Oscillation signal output (4.19MHz). |
| 36 | O | FUN CCW | Operates the motor for motor FUNCTION. |
| 37 | O | FUN CW | Operates the motor for motor FUNCTION. |
| 38 | O | VOL– | Motor for VOL. "H" when DOWN. |
| 39 | O | VOL+ | Motor for VOL. "H" when UP. |
| 40 | – | GND | |

| PIN No. | I/O | PIN NAME | FUNCTION |
|---|---|---|---|
| 41 | O | T-MUT | TUNER MUTE output. |
| 42 | O | $\overline{\text{P-MUT}}$ | PROTECT MUTE output. |
| 43 | O | $\overline{\text{F-MUT}}$ | FUNCTION MUTE output. |
| 44 | I | $\overline{\text{PROTECT IN}}$ | PROTECT detection input. |
| 45 | I | $\overline{\text{RDS-START}}$ | RDS DATA START pin. |
| 46 | I | $\overline{\text{R-IN}}$ | Remote commander input. |
| 47 | I | $\overline{\text{STOP}}$ | Power ON/OFF Monitor. |
| 48 | | NC | Fixed "L". |
| 49 | | SP-RY | Activates SPEAKER RELAY. |
| 50 | O | POWER RY | Activates POWER RELAY. |
| 51 | I | RDS-ID | RDS-ID detection input. |
| 52 | – | $V_{DD}$ | 5V |
| 53 | O | STANBY | Activates standby LED. |
| 54 | O | $\overline{\text{VOL-LED}}$ | Activates VOL-LED. |
| 55 | O | TAPE2-RELAY | Activates TAPE 2 relay. |
| 56 | O | S-DIRECT-RELAY | Activates source direct relay. |
| 57 | – | GND | |
| 58 | – | GND | |
| 59 | – | GND | |
| 60 | – | GND | |
| 61 | | LOUDNESS | LOUDNESS CONTROL output. |
| 62 | O | P15 | Drives indicator tube. |
| 63 | O | P14 | Drives indicator tube. |
| 64 | O | P13 | Drives indicator tube. |
| 65 | O | P12 | Drives indicator tube. |
| 66 | O | P11 | Drives indicator tube. |
| 67 | O | P10 | Drives indicator tube. |
| 68 | O | P9 | Drives indicator tube. |
| 69 | O | P8 | Drives indicator tube. |
| 70 | O | P7 | Drives indicator tube. |
| 71 | – | – 24V | – 24V |
| 72 | O | P6 | Drives indicator tube. |
| 73 | O | P5 | Drives indicator tube. |
| 74 | O | P4 | Drives indicator tube. |
| 75 | O | P3 | Drives indicator tube. |
| 76 | O | P2 | Drives indicator tube. |
| 77 | O | P1 | Drives indicator tube. |
| 78 | O | 10G | Drives indicator tube. |
| 79 | O | 9G | Drives indicator tube. |
| 80 | O | 8G | Drives indicator tube. |

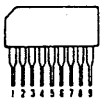
# SECTION 4
# DIAGRAMS

## 4-1. CIRCUIT BOARDS LOCATION

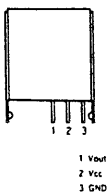


## 4-2. SEMICONDUCTOR LEAD LAYOUTS

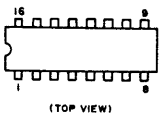
**BA6208**
**uPC4570HA-1**



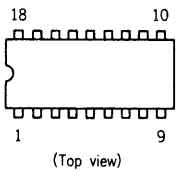
**GP1U58XB**



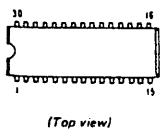

**LA1235**
**SAA6579**



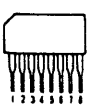

**LC7073**



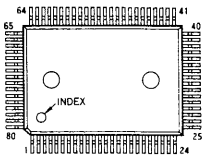

**LC7822**



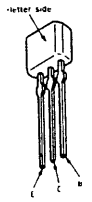

**M5218AL**



**uPD78043GF-044-3B9**

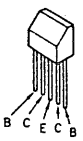



**DTA124ES**
**DTC114TS**
**2SA1175-HFE**
**2SC2785-HFE**
**2SC3623A-LK**




**DTC124ES**

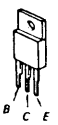
**2SA979-FG**



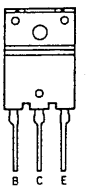
**2SA988-PAFAEA**

**2SA1221-K**
**2SC2958**

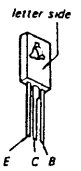
**KSA708**
**2SD2012**



**2SB1587-OPY**
**2SD2438-OPY**

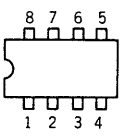


**2SD809-K**

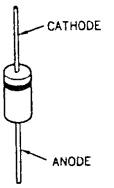



**2SK246-GR3**

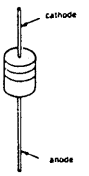
**uPC4558C**



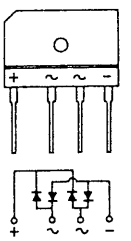

**HZS4ALL**
**UZ-12BSB**
**UZ-13BSB**
**UZL-24L**
**UZ-6.2BSC**
**1N4148M**
**1S1585**



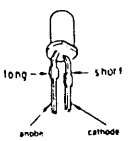

**HZS6C3L**
**UZ-4.3BSB**
**11ES2**



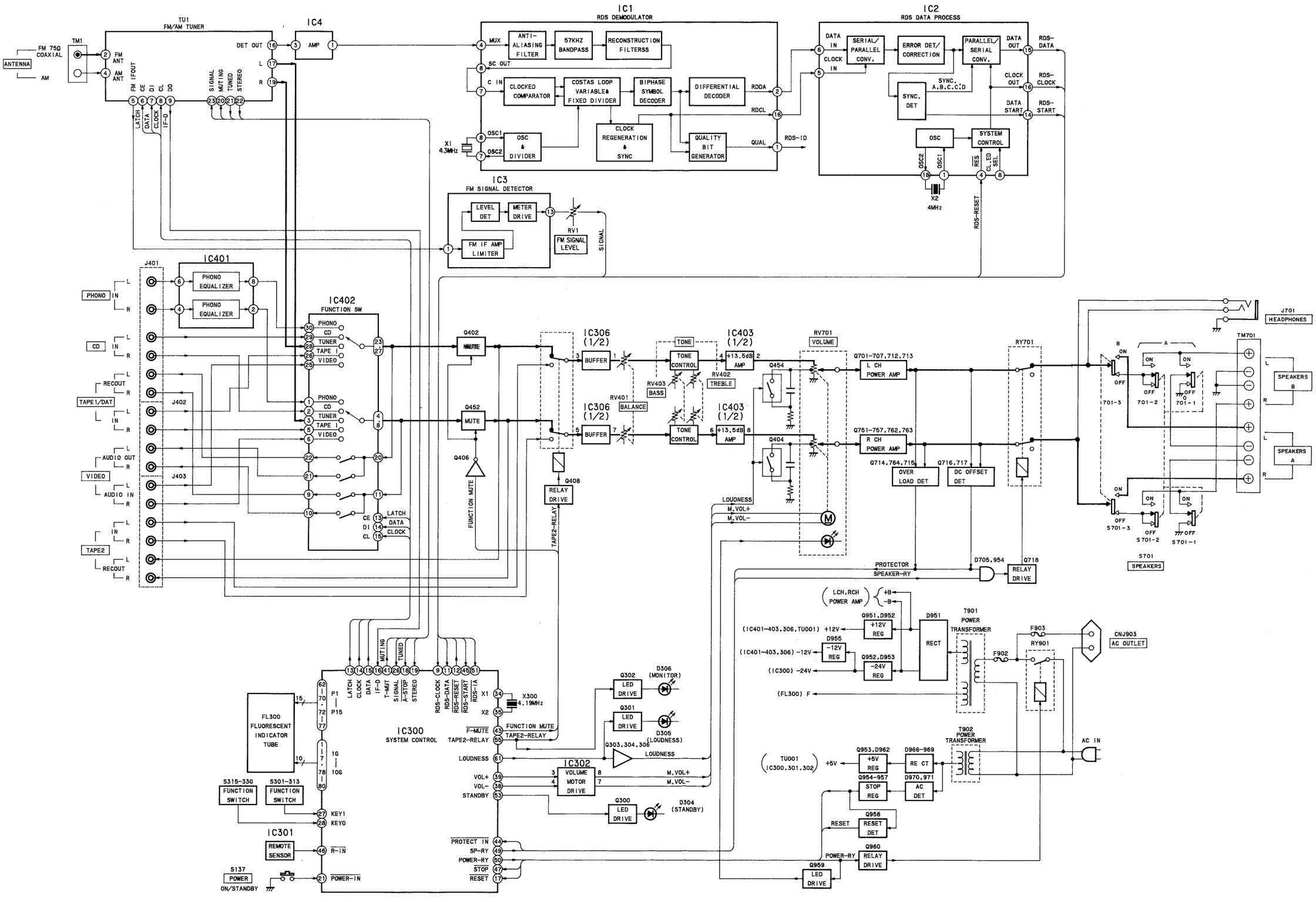

**RBV-402**



**SEL3210S-CD**
**SEL3810A-CD**



## 4-3. BLOCK DIAGRAM



## 4-4. PRINTED WIRING BOARD — MAIN SECTION —

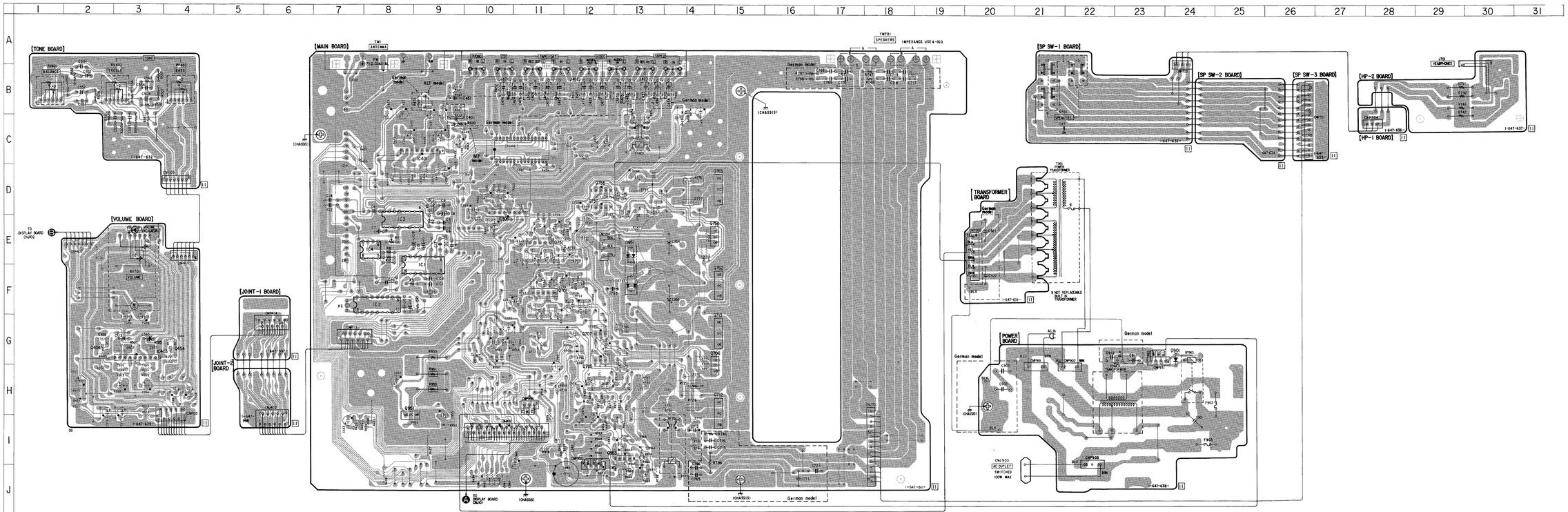
• See page 7 for Circuit Boards Location and see page 8 for Semiconductor Lead Layouts.

• Semiconductor Location

| Ref. No. | Location | Ref. No. | Location |
|---|---|---|---|
| D401 | J-10 | Q713 | G-15 |
| D403 | C-14 | Q714 | H-13 |
| D404 | H-2 | Q715 | H-12 |
| D701 | F-11 | Q716 | G-11 |
| D702 | G-11 | Q717 | G-11 |
| D703 | H-13 | Q718 | H-11 |
| D704 | J-14 | Q751 | E-11 |
| D705 | G-12 | Q752 | C-12 |
| D751 | E-11 | Q753 | E-12 |
| D752 | E-11 | Q754 | E-11 |
| D753 | D-13 | Q755 | D-12 |
| D901 | G-24 | Q756 | E-14 |
| D951 | E-13 | Q757 | D-12 |
| D952 | I-9 | Q762 | F-15 |
| D953 | G-10 | Q763 | D-15 |
| D954 | G-12 | Q764 | E-13 |
| D955 | G-10 | Q951 | H-8 |
| D956 | H-11 | Q952 | H-10 |
| D962 | I-13 | Q953 | I-12 |
| D963 | J-13 | Q954 | I-13 |
| D964 | I-13 | Q955 | I-12 |
| D965 | H-12 | Q956 | I-12 |
| D966 | I-12 | Q957 | H-12 |
| D967 | I-12 | Q958 | H-12 |
| D968 | I-12 | Q959 | G-10 |
| D969 | I-12 | Q960 | I-11 |
| D970 | J-12 | | |
| D971 | J-12 | | |
| IC1 | F-8 | | |
| IC2 | F-8 | | |
| IC3 | E-8 | | |
| IC4 | E-7 | | |
| IC906 | E-10 | | |
| IC401 | C-9 | | |
| IC402 | C-10 | | |
| IC403 | G-3 | | |
| Q402 | C-12 | | |
| Q404 | G-2 | | |
| Q406 | I-8 | | |
| Q408 | C-14 | | |
| Q452 | C-12 | | |
| Q454 | G-4 | | |
| Q701 | F-11 | | |
| Q702 | F-11 | | |
| Q703 | F-12 | | |
| Q704 | F-11 | | |
| Q705 | H-12 | | |
| Q706 | G-14 | | |
| Q707 | G-12 | | |
| Q712 | H-15 | | |

**Note:**

- ○—— : parts extracted from the components side.
- ●—— : parts extracted from the components side.
- ▨ : Pattern from the side which enable seen.



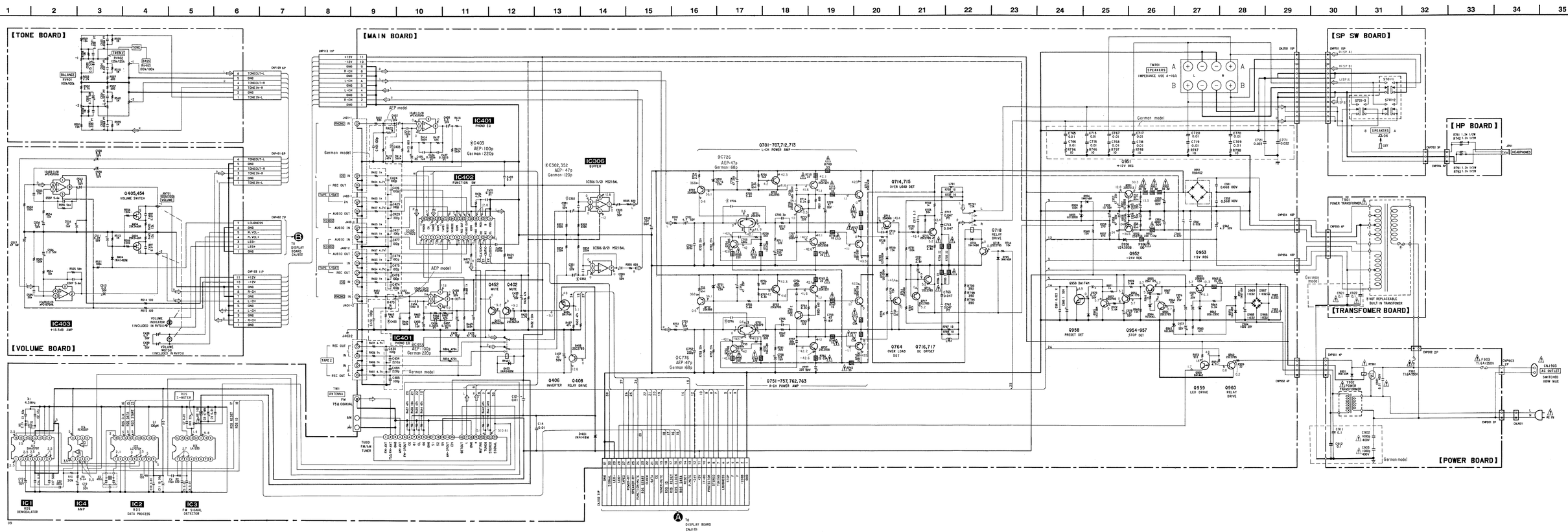
**Note:**
- All capacitors are in µF unless otherwise noted. pF=µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- % : indicates tolerance.
- ▭ : Panel designation.
- ▬ : nonflammable resistor.

**Note:** The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

- ═══ : B+ Line
- ═══ : B− Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions. no mark : FM ( ) : AM
- Voltages are taken with a VOM (Input impedance 10MΩ).
- Voltage variations may be noted due to normal production tolerances.
- Signal path. ⇨ : FM

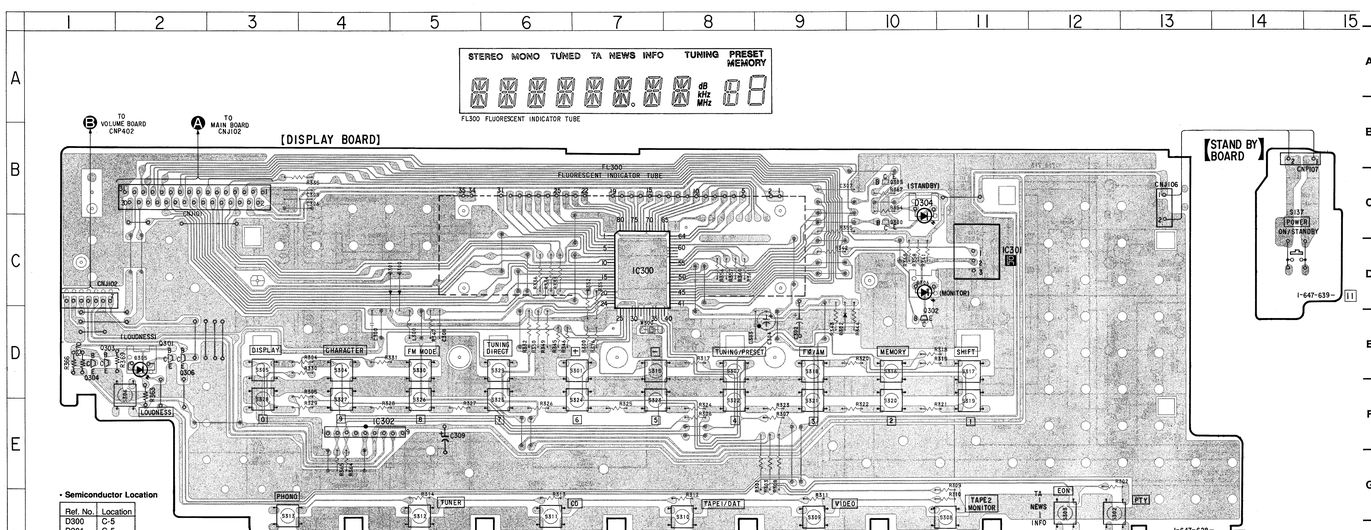
## 4-5. SCHEMATIC DIAGRAM — MAIN SECTION —

• See page 25, 26 for IC Block Diagrams.



## 4-6. PRINTED WIRING BOARD — DISPLAY SECTION —

• See page 7 for Circuit Boards Location and see page 8 for Semiconductor Lead Layouts.




• Semiconductor Location

| Ref. No. | Location |
|---|---|
| D300 | C-5 |
| D301 | C-5 |
| D302 | D-9 |
| D304 | B-10 |
| D305 | D-2 |
| D306 | C-10 |
| IC300 | C-7 |
| IC301 | C-11 |
| IC302 | E-4 |
| Q300 | C-10 |
| Q301 | D-2 |
| Q302 | D-10 |
| Q303 | D-1 |
| Q304 | D-1 |
| Q305 | B-10 |
| Q306 | D-2 |

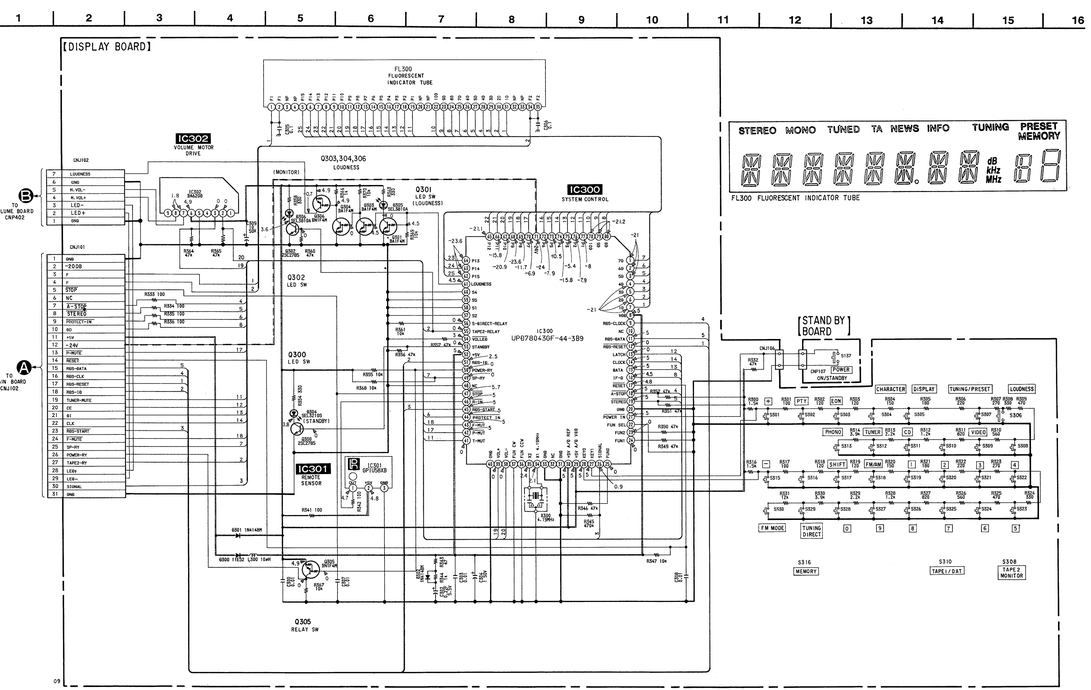
**Note:**
- ▨ : Pattern from the side which enable seen.

**Note:**
- All capacitors are in µF unless otherwise noted. pF:µµF
  50WV or less are not indicated except for electrolytics and tantaliums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- % : indicates tolerance.
- ▭ : Panel designation.

- ▬▬ : B+ Line
- ▬▬ : B− Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10MΩ).
- Voltage variations may be noted due to normal production tolerances.

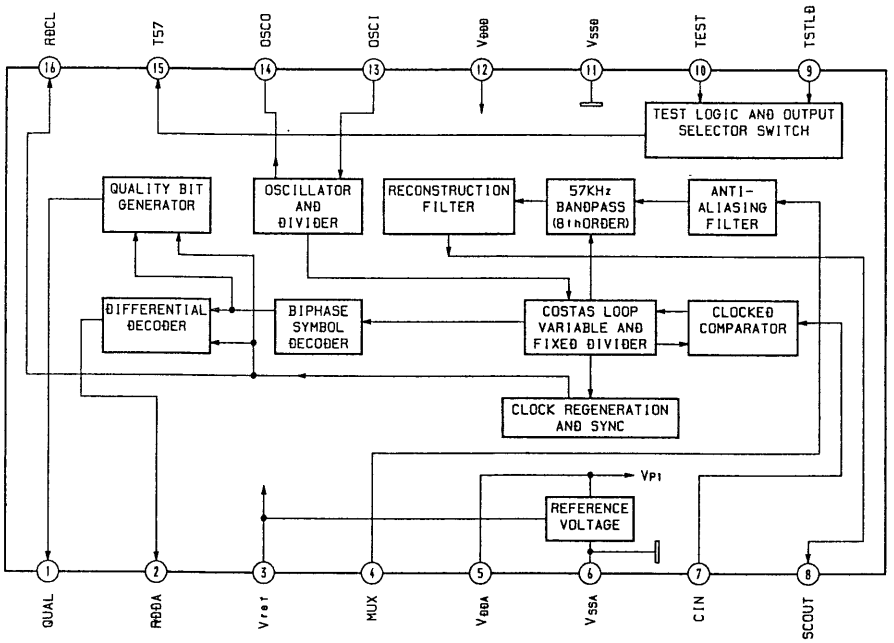
## 4-7. SCHEMATIC DIAGRAM — DISPLAY SECTION —

• See page 25, 26 for IC Block Diagrams.

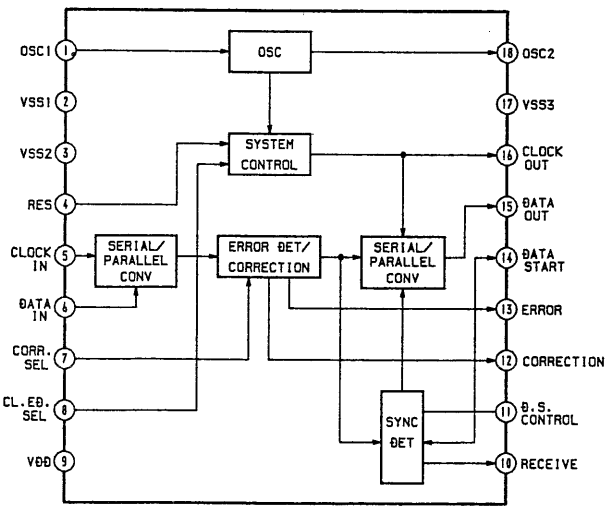


## 4-8. IC BLOCK DIAGRAMS

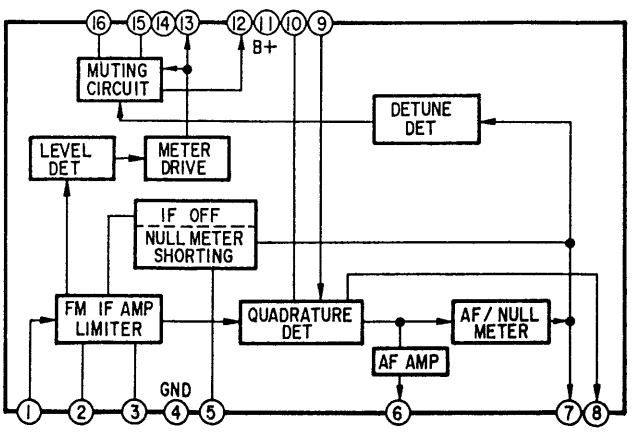
### IC001 SAA6579



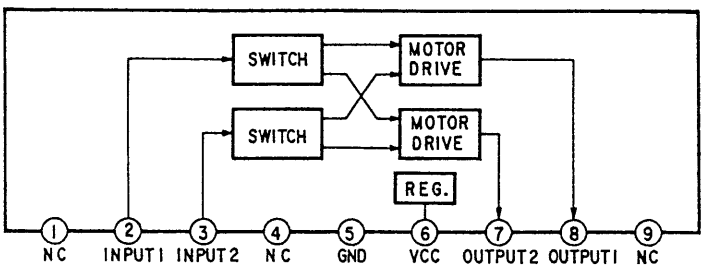

### IC002 LC7073



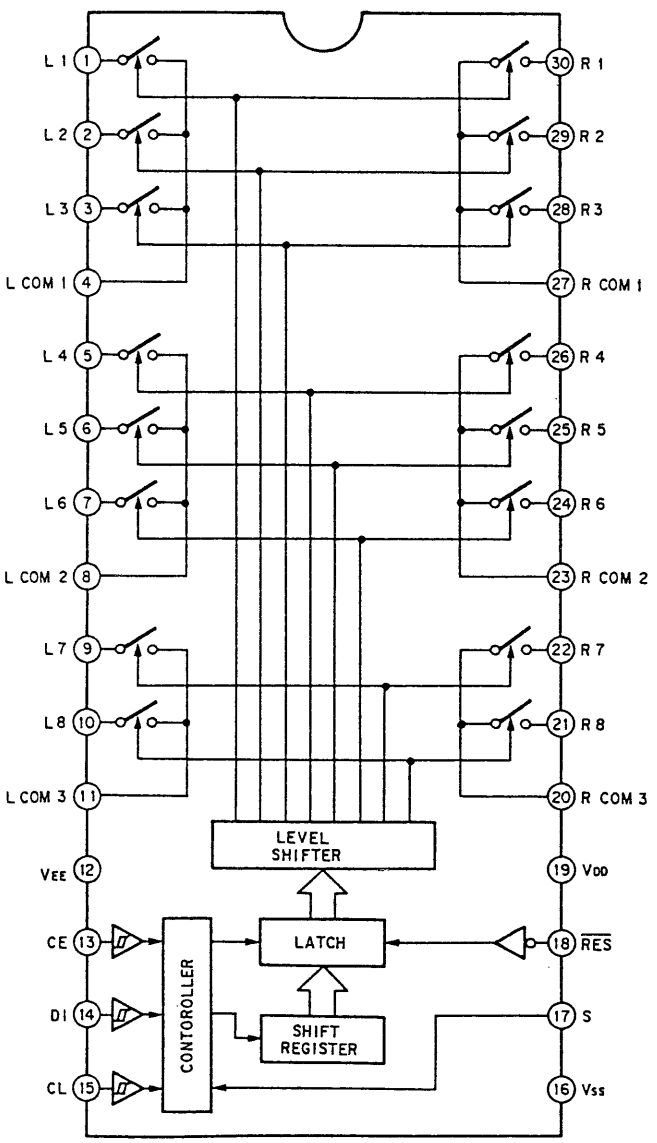

### IC003 LA1235



## IC302 BA6208




## IC402 LC7822



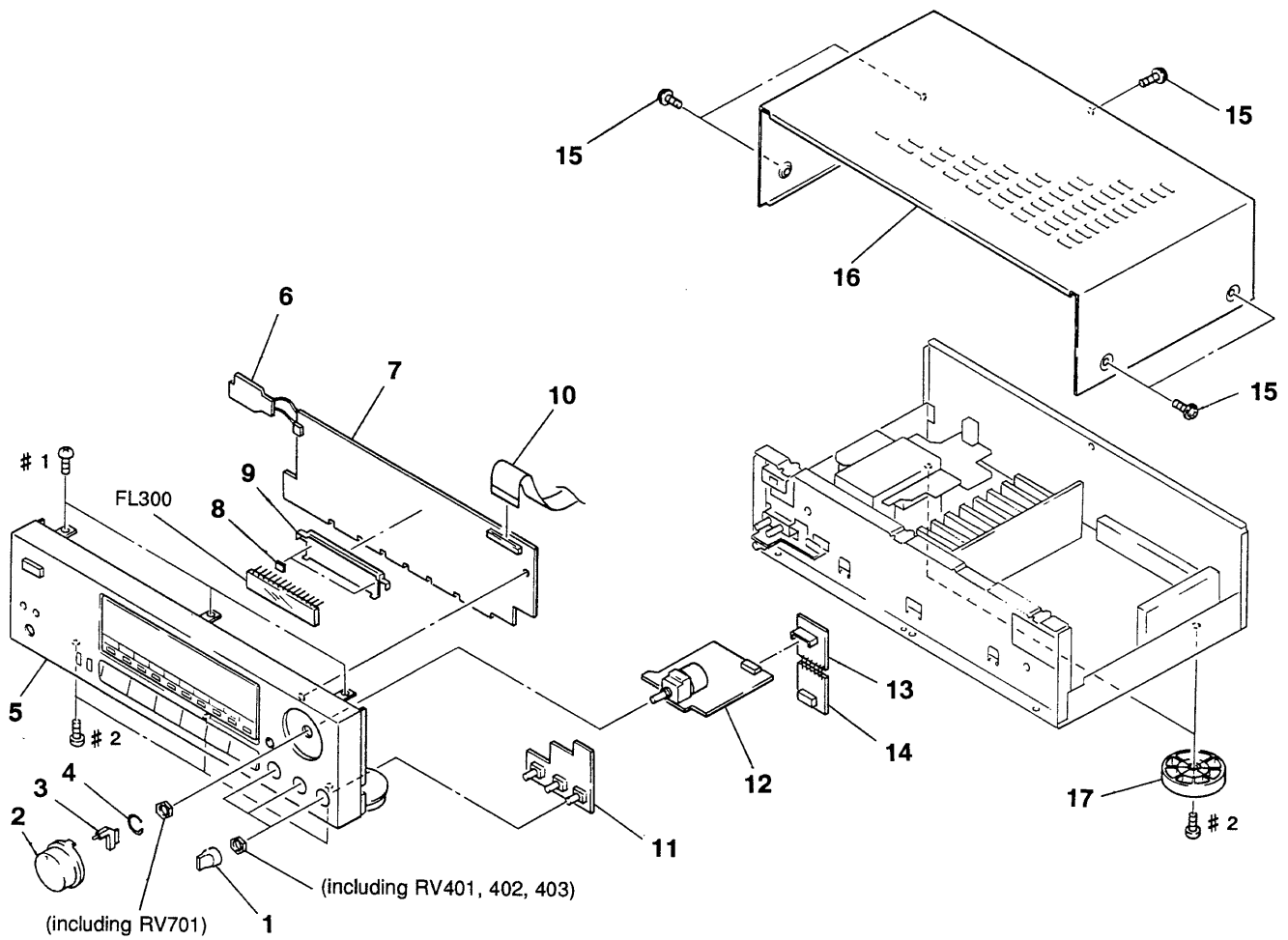
# SECTION 5
# EXPLODED VIEWS

NOTE:
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.
- G : German model.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

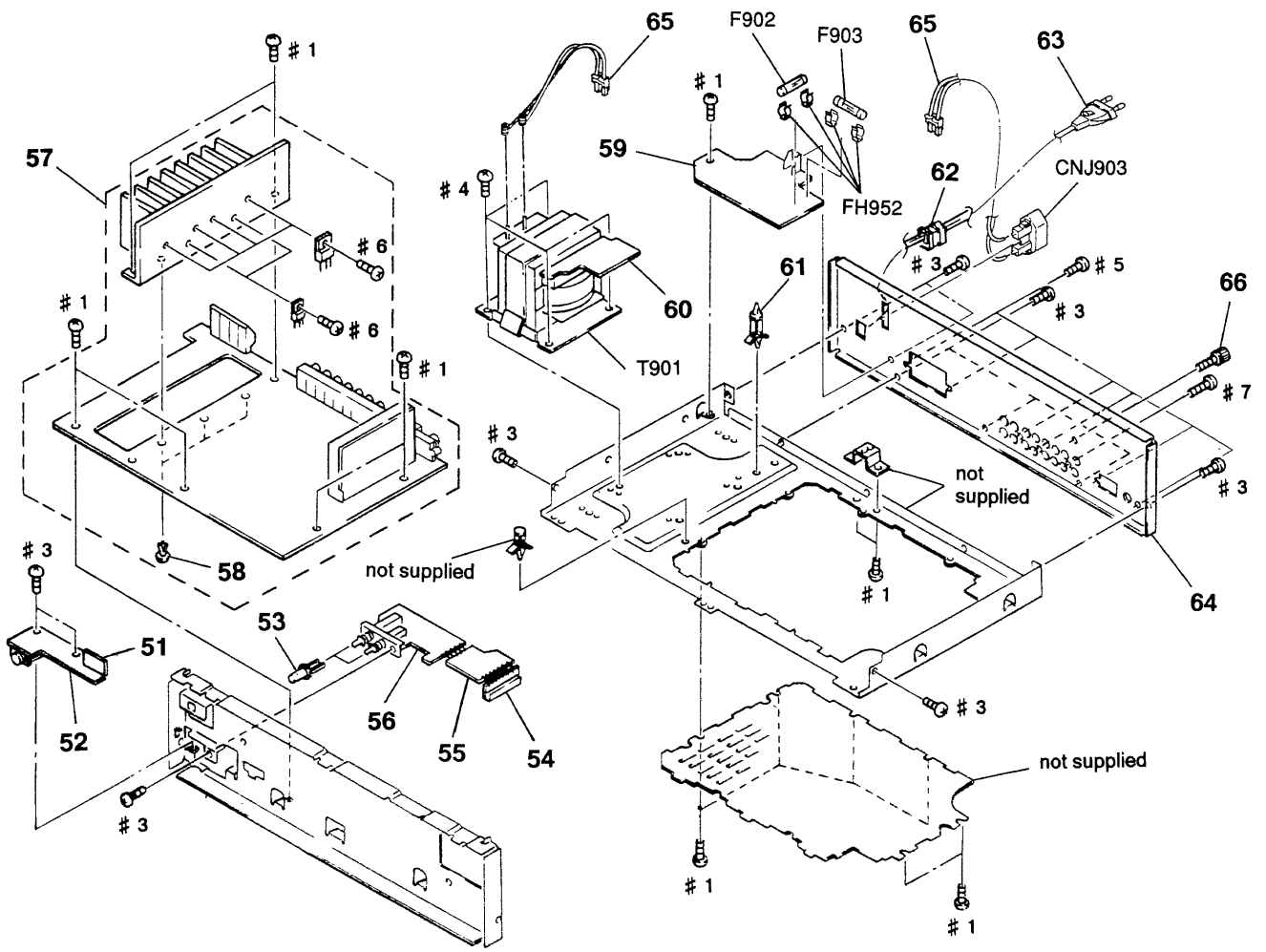
**Note:**
There are two type of AEP models which are depend on countries.
AE2 (AEP2) model: Model for Scandinavian countries. Switzerland, Spain and Portugal
AE1 (AEP1) model: Model for other European countries

## 5-1. FRONT PANEL SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 1 | 4-957-383-01 | KNOB (F14) | |
| 2 | 4-949-659-01 | KNOB (VOL-NEW) | |
| 3 | 4-958-991-01 | PLATE (VOL), LIGHT GUIDE | |
| 4 | 3-350-426-01 | SPRING, RING | |
| 5 | X-4943-601-1 | PANEL ASSY, FRONT | |
| * 6 | 1-647-639-11 | STAND BY BOARD | |
| * 7 | A-4360-427-A | DISPLAY BOARD, COMPLETE | |
| * 8 | 4-921-941-01 | CUSHION (FL) | |
| * 9 | 4-943-107-11 | HOLDER (FL TUBE) | |
| 10 | 1-696-456-11 | WIRE (FLAT TYPE) (31 CORE) | |
| * 11 | 1-647-632-11 | TONE BOARD | |
| * 12 | A-4360-428-A | VOLUME BOARD, COMPLETE | |
| * 13 | 1-648-997-11 | JOINT-1 BOARD | |
| * 14 | 1-648-998-11 | JOINT-2 BOARD | |
| 15 | 3-704-366-01 | SCREW (CASE) (M3X8) | |
| * 16 | 4-951-795-01 | CASE | |
| 17 | X-4941-292-1 | FOOT ASSY (F58175S) | |
| FL300 | 1-517-141-11 | INDICATOR TUBE, FLUORESCENT | |

## 5-2. CHASSIS SECTION




The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 51 | 1-647-636-11 | HP-1 BOARD | |
| * 52 | 1-647-637-11 | HP-2 BOARD | |
| 53 | 4-951-801-02 | BUTTON (S) | |
| * 54 | 1-647-633-11 | SP SW-1 BOARD | |
| * 55 | 1-647-634-11 | SP SW-2 BOARD | |
| * 56 | 1-647-635-11 | SP SW-3 BOARD | |
| * 57 | A-4360-426-A | MAIN BOARD, COMPLETE (AEP) | |
| * 57 | A-4360-437-A | MAIN BOARD, COMPLETE (G) | |
| 58 | 4-812-134-00 | RIVET NYLON, 3.5 | |
| * 59 | 1-647-638-11 | POWER BOARD | |
| * 60 | 1-647-627-11 | TRANSFORMER BOARD | |
| * 61 | 4-924-098-31 | HOLDER, PC BOARD | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 62 | 3-703-244-00 | BUSHING (2104), CORD | |
| ⚠63 | 1-575-651-11 | CORD, POWER | |
| * 64 | 4-957-709-01 | PANEL, BACK (AEP1) | |
| * 64 | 4-957-709-11 | PANEL, BACK (AEP2) | |
| * 64 | 4-957-709-21 | PANEL, BACK (G) | |
| 65 | 1-750-854-11 | CORD (WITH CONNECTOR) | |
| 66 | 4-947-010-01 | SCREW, FEEDER FIXED | |
| ⚠CNJ903 | 1-526-794-11 | OUTLET, AC (AC OUTLET) | |
| ⚠F902 | 1-532-259-00 | FUSE (T1.6A 250V) | |
| ⚠F903 | 1-532-259-00 | FUSE (T1.6A 250V) | |
| * FH952 | 1-533-293-11 | HOLDER, FUSE | |
| ⚠T901 | 1-450-363-11 | TRANSFORMER, POWER | |

# SECTION 6
# ELECTRICAL PARTS LIST

**DISPLAY**

NOTE:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

**Note:**
There are two type of AEP models which are depend on countries.
AE2 (AEP2) model: Model for Scandinavian countries. Switzerland, Spain and Portugal
AE1 (AEP1) model: Model for other European countries

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- SEMICONDUCTORS
  In each case, u: μ , for example:
  uA...: μA..., uPA...: μPA..., uPB...: μPB..., uPC...: μPC..., uPD...: μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH
- Hardware (# mark) list is given in the last of this parts list.
- G : German model.

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| * | A-4360-427-A | DISPLAY BOARD, COMPLETE | | | |
| | | ********** | | | |
| * | 4-921-941-01 | CUSHION (FL) | | | |
| * | 4-943-107-11 | HOLDER (FL TUBE) | | | |
| | | < CAPACITOR > | | | |
| C300 | 1-161-379-00 | CERAMIC | 0.01uF | 20% 25V | |
| C302 | 1-125-486-11 | DOUBLE LAYERS | 0.22F | 5.5V | |
| C303 | 1-161-379-00 | CERAMIC | 0.01uF | 20% 25V | |
| C304 | 1-124-903-11 | ELECT | 1uF | 20% 50V | |
| C305 | 1-164-159-11 | CERAMIC | 0.1uF | 50V | |
| C306 | 1-164-159-11 | CERAMIC | 0.1uF | 50V | |
| C307 | 1-161-379-00 | CERAMIC | 0.01uF | 20% 25V | |
| C308 | 1-161-379-00 | CERAMIC | 0.01uF | 20% 25V | |
| C309 | 1-124-907-11 | ELECT | 10uF | 20% 50V | |
| | | < CONNECTOR > | | | |
| * CNJ101 | 1-568-873-11 | SOCKET, CONNECTOR 31P | | | |
| * CNJ102 | 1-566-969-11 | HOUSING, CONNECTOR(PC BOARD) 7P | | | |
| * CNJ106 | 1-565-480-11 | CONNECTOR, BOARD TO BOARD 4P | | | |
| | | < DIODE > | | | |
| D300 | 8-719-200-82 | DIODE | 11ES2 | | |
| D301 | 8-719-987-63 | DIODE | 1N4148M | | |
| D302 | 8-719-987-63 | DIODE | 1N4148M | | |
| D304 | 8-719-313-69 | DIODE | SEL3210S-CD | | |
| D305 | 8-719-313-72 | LED | SEL3810A-CD | | |
| D306 | 8-719-313-72 | LED | SEL3810A-CD | | |
| | | < FLUORESCENT INDICATOR > | | | |
| FL300 | 1-517-141-11 | INDICATOR TUBE, FLUORESCENT | | | |
| | | < IC > | | | |
| IC300 | 8-759-189-68 | IC | uPD78043GF-044-3B9 | | |
| IC301 | 8-749-923-11 | IC | GP1U58XB | | |
| IC302 | 8-759-962-08 | IC | BA6208 | | |
| | | < COIL > | | | |
| L300 | 1-410-509-11 | INDUCTOR | 10uH | | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | | < TRANSISTOR > | | | |
| Q300 | 8-729-119-78 | TRANSISTOR | 2SC2785-HFE | | |
| Q301 | 8-729-900-36 | TRANSISTOR | DTC124ES | | |
| Q302 | 8-729-119-78 | TRANSISTOR | 2SC2785-HFE | | |
| Q303 | 8-729-900-36 | TRANSISTOR | DTC124ES | | |
| Q304 | 8-729-900-36 | TRANSISTOR | DTC124ES | | |
| Q305 | 8-729-900-63 | TRANSISTOR | DTA124ES | | |
| Q306 | 8-729-900-63 | TRANSISTOR | DTA124ES | | |
| | | < RESISTOR > | | | |
| R300 | 1-249-419-11 | CARBON | 1.5K | 5% 1/4W F | |
| R301 | 1-249-405-11 | CARBON | 100 | 5% 1/4W F | |
| R302 | 1-249-406-11 | CARBON | 120 | 5% 1/4W F | |
| R303 | 1-249-406-11 | CARBON | 120 | 5% 1/4W F | |
| R304 | 1-249-407-11 | CARBON | 150 | 5% 1/4W F | |
| R305 | 1-249-408-11 | CARBON | 180 | 5% 1/4W F | |
| R306 | 1-249-409-11 | CARBON | 220 | 5% 1/4W F | |
| R307 | 1-249-410-11 | CARBON | 270 | 5% 1/4W F | |
| R308 | 1-249-411-11 | CARBON | 330 | 5% 1/4W | |
| R309 | 1-249-413-11 | CARBON | 470 | 5% 1/4W F | |
| R310 | 1-249-414-11 | CARBON | 560 | 5% 1/4W F | |
| R311 | 1-249-416-11 | CARBON | 820 | 5% 1/4W F | |
| R312 | 1-249-418-11 | CARBON | 1.2K | 5% 1/4W F | |
| R313 | 1-249-421-11 | CARBON | 2.2K | 5% 1/4W F | |
| R314 | 1-249-424-11 | CARBON | 3.9K | 5% 1/4W F | |
| R316 | 1-249-419-11 | CARBON | 1.5K | 5% 1/4W F | |
| R317 | 1-249-405-11 | CARBON | 100 | 5% 1/4W F | |
| R318 | 1-249-406-11 | CARBON | 120 | 5% 1/4W F | |
| R319 | 1-249-406-11 | CARBON | 120 | 5% 1/4W F | |
| R320 | 1-249-407-11 | CARBON | 150 | 5% 1/4W F | |
| R321 | 1-249-408-11 | CARBON | 180 | 5% 1/4W F | |
| R322 | 1-249-409-11 | CARBON | 220 | 5% 1/4W F | |
| R323 | 1-249-410-11 | CARBON | 270 | 5% 1/4W F | |
| R324 | 1-249-411-11 | CARBON | 330 | 5% 1/4W | |
| R325 | 1-249-413-11 | CARBON | 470 | 5% 1/4W F | |
| R326 | 1-249-414-11 | CARBON | 560 | 5% 1/4W F | |
| R327 | 1-249-416-11 | CARBON | 820 | 5% 1/4W F | |
| R328 | 1-249-418-11 | CARBON | 1.2K | 5% 1/4W F | |
| R329 | 1-249-421-11 | CARBON | 2.2K | 5% 1/4W F | |
| R330 | 1-249-424-11 | CARBON | 3.9K | 5% 1/4W F | |

# DISPLAY | HP-1 | HP-2 | JOINT-1

| Ref.No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| R331 | 1-249-430-11 | CARBON | 12K | 5% | 1/4W | |
| R332 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R333 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | F |
| R334 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | F |
| R335 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | F |
| R336 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | F |
| R341 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | F |
| R342 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | F |
| R343 | 1-249-401-11 | CARBON | 47 | 5% | 1/4W | F |
| R344 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R345 | 1-247-895-00 | CARBON | 470K | 5% | 1/4W | |
| R346 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R347 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R349 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R350 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R351 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R352 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R354 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| R355 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R356 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R357 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R358 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| R360 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R361 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R363 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| R364 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R365 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R366 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R367 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R368 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R369 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R370 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| | | < SWITCH > | | | | |
| S301 | 1-554-303-21 | SWITCH, TACTILE (+) | | | | |
| S302 | 1-554-303-21 | SWITCH, TACTILE (PTY) | | | | |
| S303 | 1-554-303-21 | SWITCH, TACTILE (EON) | | | | |
| S304 | 1-554-303-21 | SWITCH, TACTILE (CHARACTER) | | | | |
| S305 | 1-554-303-21 | SWITCH, TACTILE (DISPLAY) | | | | |
| S306 | 1-554-303-21 | SWITCH, TACTILE (LOUDNESS) | | | | |
| S307 | 1-554-303-21 | SWITCH, TACTILE (TUNING/PRESET) | | | | |
| S308 | 1-554-303-21 | SWITCH, TACTILE (TAPE2/MONITOR) | | | | |
| S309 | 1-554-303-21 | SWITCH, TACTILE (VIDEO) | | | | |
| S310 | 1-554-303-21 | SWITCH, TACTILE (TAPE1/DAT) | | | | |
| S311 | 1-554-303-21 | SWITCH, TACTILE (CD) | | | | |
| S312 | 1-554-303-21 | SWITCH, TACTILE (TUNER) | | | | |
| S313 | 1-554-303-21 | SWITCH, TACTILE (PHONO) | | | | |
| S315 | 1-554-303-21 | SWITCH, TACTILE (-) | | | | |
| S316 | 1-554-303-21 | SWITCH, TACTILE (MEMORY) | | | | |
| S317 | 1-554-303-21 | SWITCH, TACTILE (SHIFT) | | | | |

| Ref.No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| S318 | 1-554-303-21 | SWITCH, TACTILE (FM/AM) | | | | |
| S319 | 1-554-303-21 | SWITCH, TACTILE (1) | | | | |
| S320 | 1-554-303-21 | SWITCH, TACTILE (2) | | | | |
| S321 | 1-554-303-21 | SWITCH, TACTILE (3) | | | | |
| S322 | 1-554-303-21 | SWITCH, TACTILE (4) | | | | |
| S323 | 1-554-303-21 | SWITCH, TACTILE (5) | | | | |
| S324 | 1-554-303-21 | SWITCH, TACTILE (6) | | | | |
| S325 | 1-554-303-21 | SWITCH, TACTILE (7) | | | | |
| S326 | 1-554-303-21 | SWITCH, TACTILE (8) | | | | |
| S327 | 1-554-303-21 | SWITCH, TACTILE (9) | | | | |
| S328 | 1-554-303-21 | SWITCH, TACTILE (0) | | | | |
| S329 | 1-554-303-21 | SWITCH, TACTILE (TUNING DIRECT) | | | | |
| S330 | 1-554-303-21 | SWITCH, TACTILE (FM MODE) | | | | |
| | | < VIBRATOR > | | | | |
| X300 | 1-577-101-11 | VIBRATOR, CERAMIC (4.19MHz) | | | | |
| ********** | | | | | | |
| * | 1-647-636-11 | HP-1 BOARD | | | | |
| | | ********** | | | | |
| | | < CONNECTOR > | | | | |
| CNP704 | 1-691-160-11 | PIN, CONNECTOR 3P | | | | |
| ********** | | | | | | |
| * | 1-647-637-11 | HP-2 BOARD | | | | |
| | | ********** | | | | |
| | | < JACK > | | | | |
| J701 | 1-568-151-11 | JACK (LARGE TYPE) (HEADPHONE) | | | | |
| | | < RESISTOR > | | | | |
| R741 | 1-247-753-11 | CARBON | 1.2K | 5% | 1/2W | |
| R742 | 1-247-753-11 | CARBON | 1.2K | 5% | 1/2W | |
| R791 | 1-247-753-11 | CARBON | 1.2K | 5% | 1/2W | |
| R792 | 1-247-753-11 | CARBON | 1.2K | 5% | 1/2W | |
| ********** | | | | | | |
| * | 1-648-997-11 | JOINT-1 BOARD | | | | |
| | | ********** | | | | |
| | | < CONNECTOR > | | | | |
| * CNP404 | 1-750-384-11 | CONNECTOR, BOARD TO BOARD 11P | | | | |
| ********** | | | | | | |

| Ref.No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| * | 1-648-998-11 | JOINT-2 BOARD | | | |
| | | ********** | | | |
| | | < CONNECTOR > | | | |
| * CNJ402 | 1-750-383-11 | CONNECTOR, BOARD TO BOARD 11P | | | |
| ********** | | | | | |
| * | A-4360-426-A | MAIN BOARD, COMPLETE (AEP) | | | |
| | | ********** | | | |
| * | A-4360-437-A | MAIN BOARD, COMPLETE (G) | | | |
| | | ********** | | | |
| | 4-812-134-00 | RIVET NYLON, 3.5 | | | |
| * | 4-942-204-01 | PLATE, GROUND | | | |
| * | 4-953-350-01 | PLATE, GROUND | | | |
| | 7-685-647-79 | SCREW +BVTP 3X10 TYPE2 IT-3 | | | |
| | 7-682-548-04 | SCREW +BVTT 3X8 (S) | | | |
| | | < CAPACITOR > | | | |
| C1 | 1-162-280-31 | CERAMIC | 82PF | 10% | 50V |
| C2 | 1-162-215-31 | CERAMIC | 47PF | 5% | 50V |
| C4 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C5 | 1-161-379-00 | CERAMIC | 0.01uF | 20% | 25V |
| C6 | 1-161-379-00 | CERAMIC | 0.01uF | 20% | 25V |
| C7 | 1-161-379-00 | CERAMIC | 0.01uF | 20% | 25V |
| C8 | 1-124-910-11 | ELECT | 47uF | 20% | 50V |
| C9 | 1-161-379-00 | CERAMIC | 0.01uF | 20% | 25V |
| C10 | 1-161-379-00 | CERAMIC | 0.01uF | 20% | 25V |
| C11 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C12 | 1-161-379-00 | CERAMIC | 0.01uF | 20% | 25V |
| C14 | 1-161-379-00 | CERAMIC | 0.01uF | 20% | 25V |
| C15 | 1-124-925-11 | ELECT | 2.2uF | 20% | 100V |
| C16 | 1-161-379-00 | CERAMIC | 0.01uF | 20% | 25V |
| C17 | 1-162-291-31 | CERAMIC | 560PF | 10% | 50V |
| C19 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C20 | 1-162-288-31 | CERAMIC | 330PF | 10% | 50V |
| C301 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C302 | 1-162-215-31 | CERAMIC | 47PF | 5% | 50V (AEP) |
| C302 | 1-162-283-31 | CERAMIC | 120PF | 10% | 50V (G) |
| C303 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C351 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C352 | 1-162-215-31 | CERAMIC | 47PF | 5% | 50V (AEP) |
| C352 | 1-162-283-31 | CERAMIC | 120PF | 10% | 50V (G) |
| C353 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C401 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V (G) |
| C402 | 1-123-382-00 | ELECT | 3.3uF | 20% | 100V |
| C403 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V (AEP) |
| C403 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V (G) |
| C404 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C405 | 1-124-034-51 | ELECT | 33uF | 20% | 16V |
| C406 | 1-137-437-11 | FILM | 0.0056uF | 5% | 50V |
| C407 | 1-137-365-11 | FILM | 0.0015uF | 5% | 50V |
| C408 | 1-123-382-00 | ELECT | 3.3uF | 20% | 100V |
| C420 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C422 | 1-124-477-11 | ELECT | 47uF | 20% | 25V |
| C423 | 1-124-477-11 | ELECT | 47uF | 20% | 25V |
| C424 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V (G) |
| C425 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V (G) |
| C426 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V (G) |
| C427 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V (G) |
| C429 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V (G) |
| C430 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C431 | 1-137-364-91 | FILM | 0.001uF | 5% | 50V |
| C433 | 1-124-925-11 | ELECT | 2.2uF | 20% | 100V |
| C434 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V (G) |
| C435 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V (G) |
| C437 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C451 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V (G) |
| C452 | 1-123-382-00 | ELECT | 3.3uF | 20% | 100V |
| C453 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V (AEP) |
| C453 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V (G) |
| C454 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C455 | 1-124-034-51 | ELECT | 33uF | 20% | 16V |
| C456 | 1-137-437-11 | FILM | 0.0056uF | 5% | 50V |
| C457 | 1-137-365-11 | FILM | 0.0015uF | 5% | 50V |
| C458 | 1-123-382-00 | ELECT | 3.3uF | 20% | 100V |
| C474 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V (G) |
| C475 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V (G) |
| C476 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V (G) |
| C477 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V (G) |
| C479 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V (G) |
| C484 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V (G) |
| C485 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V (G) |
| C701 | 1-124-927-11 | ELECT | 4.7uF | 20% | 100V |
| C702 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C703 | 1-102-116-00 | CERAMIC | 680PF | 10% | 50V |
| C704 | 1-124-477-11 | ELECT | 47uF | 20% | 25V |
| C705 | 1-164-039-11 | CERAMIC | 3PF | 0.25PF | 50V |
| C706 | 1-102-989-00 | CERAMIC | 68PF | 5% | 500V |
| C707 | 1-102-989-00 | CERAMIC | 68PF | 5% | 500V |
| C708 | 1-124-120-11 | ELECT | 220uF | 20% | 25V |
| C709 | 1-124-477-11 | ELECT | 47uF | 20% | 25V |
| C710 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C711 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C712 | 1-136-161-00 | FILM | 0.047uF | 5% | 50V |
| C713 | 1-136-161-00 | FILM | 0.047uF | 5% | 50V |
| C715 | 1-164-096-11 | CERAMIC | 0.01uF | | 50V (G) |
| C716 | 1-164-096-11 | CERAMIC | 0.01uF | | 50V (G) |
| C717 | 1-164-096-11 | CERAMIC | 0.01uF | | 50V (G) |
| C718 | 1-164-096-11 | CERAMIC | 0.01uF | | 50V (G) |

# MAIN

| Ref.No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C719 | 1-164-096-11 | CERAMIC | 0.01uF | 50V | (G) |
| C720 | 1-164-096-11 | CERAMIC | 0.01uF | 50V | (G) |
| C721 | 1-161-494-00 | CERAMIC | 0.022uF | 25V | (G) |
| C726 | 1-162-215-31 | CERAMIC | 47PF 5% | 50V | (AEP) |
| C726 | 1-162-219-31 | CERAMIC | 68PF 5% | 50V | (G) |
| C727 | 1-124-911-11 | ELECT | 220uF 20% | 50V | |
| C749 | 1-124-911-11 | ELECT | 220uF 20% | 50V | |
| C751 | 1-124-927-11 | ELECT | 4.7uF 20% | 100V | |
| C752 | 1-162-286-31 | CERAMIC | 220PF 10% | 50V | |
| C753 | 1-102-116-00 | CERAMIC | 680PF 10% | 50V | |
| C754 | 1-124-477-11 | ELECT | 47uF 20% | 25V | |
| C755 | 1-164-039-11 | CERAMIC | 3PF 0.25PF | 50V | |
| C756 | 1-102-989-00 | CERAMIC | 68PF 5% | 500V | |
| C757 | 1-102-989-00 | CERAMIC | 68PF 5% | 500V | |
| C758 | 1-124-120-11 | ELECT | 220uF 20% | 25V | |
| C759 | 1-124-477-11 | ELECT | 47uF 20% | 25V | |
| C760 | 1-164-159-11 | CERAMIC | 0.1uF | 50V | |
| C761 | 1-124-472-11 | ELECT | 470uF 20% | 10V | |
| C762 | 1-136-161-00 | FILM | 0.047uF 5% | 50V | |
| C763 | 1-136-161-00 | FILM | 0.047uF 5% | 50V | |
| C765 | 1-164-096-11 | CERAMIC | 0.01uF | 50V | (G) |
| C766 | 1-164-096-11 | CERAMIC | 0.01uF | 50V | (G) |
| C767 | 1-164-096-11 | CERAMIC | 0.01uF | 50V | (G) |
| C768 | 1-164-096-11 | CERAMIC | 0.01uF | 50V | (G) |
| C769 | 1-164-096-11 | CERAMIC | 0.01uF | 50V | (G) |
| C770 | 1-164-096-11 | CERAMIC | 0.01uF | 50V | (G) |
| C771 | 1-161-494-00 | CERAMIC | 0.022uF | 25V | (G) |
| C776 | 1-162-215-31 | CERAMIC | 47PF 5% | 50V | (AEP) |
| C776 | 1-162-219-31 | CERAMIC | 68PF 5% | 50V | (G) |
| C951 | 1-108-702-11 | MYLAR | 0.068uF 10% | 100V | |
| C952 | 1-108-702-11 | MYLAR | 0.068uF 10% | 100V | |
| C953 | 1-125-614-11 | ELECT | 6800uF 20% | 50V | |
| C953 | 1-128-506-11 | ELECT | 6800uF 20% | 50V | |
| C954 | 1-125-614-11 | ELECT | 6800uF 20% | 50V | |
| C954 | 1-128-506-11 | ELECT | 6800uF 20% | 50V | |
| C955 | 1-124-478-11 | ELECT | 100uF 20% | 25V | |
| C956 | 1-124-910-11 | ELECT | 47uF 20% | 50V | |
| C957 | 1-124-477-11 | ELECT | 47uF 20% | 25V | |
| C958 | 1-124-910-11 | ELECT | 47uF 20% | 50V | |
| C959 | 1-124-907-11 | ELECT | 10uF 20% | 50V | |
| C960 | 1-161-494-00 | CERAMIC | 0.022uF | 25V | |
| C961 | 1-161-494-00 | CERAMIC | 0.022uF | 25V | |
| C962 | 1-124-927-11 | ELECT | 4.7uF 20% | 100V | |
| C975 | 1-124-477-11 | ELECT | 47uF 20% | 25V | |
| C976 | 1-124-477-11 | ELECT | 47uF 20% | 25V | |
| C977 | 1-124-903-11 | ELECT | 1uF 20% | 50V | |
| C978 | 1-124-464-11 | ELECT | 0.22uF 20% | 50V | |
| C979 | 1-124-902-00 | ELECT | 0.47uF 20% | 50V | |
| C980 | 1-124-903-11 | ELECT | 1uF 20% | 50V | |
| C981 | 1-161-494-00 | CERAMIC | 0.022uF | 25V | |
| C982 | 1-161-494-00 | CERAMIC | 0.022uF | 25V | |
| C983 | 1-161-494-00 | CERAMIC | 0.022uF | 25V | |
| C984 | 1-124-557-11 | ELECT | 1000uF 20% | 25V | |

< CONNECTOR >

| | | | |
|---|---|---|---|
| * CNJ102 | 1-568-845-11 | SOCKET, CONNECTOR 31P | |
| CNJ701 | 1-573-095-11 | SOCKET, CONNECTOR 15P | |
| * CNP113 | 1-750-384-11 | CONNECTOR, BOARD TO BOARD 11P | |
| * CNP952 | 1-564-507-11 | PLUG, CONNECTOR 4P | |
| * CNP954 | 1-564-104-00 | PIN, CONNECTOR (B3P-VH) 3P | |
| * CNP956 | 1-564-506-11 | PLUG, CONNECTOR 3P | |

< DIODE >

| | | | |
|---|---|---|---|
| D401 | 8-719-987-63 | DIODE | 1N4148M |
| D403 | 8-719-987-63 | DIODE | 1N4148M |
| D701 | 8-719-933-41 | DIODE | HZS6C3L |
| D702 | 8-719-987-63 | DIODE | 1N4148M |
| D703 | 8-719-815-85 | DIODE | 1S1585 |
| D704 | 8-719-987-63 | DIODE | 1N4148M |
| D705 | 8-719-987-63 | DIODE | 1N4148M |
| D751 | 8-719-933-41 | DIODE | HZS6C3L |
| D752 | 8-719-987-63 | DIODE | 1N4148M |
| D753 | 8-719-815-85 | DIODE | 1S1585 |
| D951 | 8-719-312-09 | DIODE | RBA-402 |
| D952 | 8-719-010-78 | DIODE | UZ-13BSB |
| D953 | 8-719-002-33 | DIODE | UZL-24L |
| D954 | 8-719-987-63 | DIODE | 1N4148M |
| D955 | 8-719-010-74 | DIODE | UZ-12BSB |
| D956 | 8-719-010-29 | DIODE | UZ-4.3BSB |
| D962 | 8-719-010-47 | DIODE | UZ-6.2BSC |
| D963 | 8-719-933-41 | DIODE | HZS6C3L |
| D964 | 8-719-985-53 | DIODE | HZS4ALL |
| D965 | 8-719-987-63 | DIODE | 1N4148M |
| D966 | 8-719-200-82 | DIODE | 11ES2 |
| D967 | 8-719-200-82 | DIODE | 11ES2 |
| D968 | 8-719-200-82 | DIODE | 11ES2 |
| D969 | 8-719-200-82 | DIODE | 11ES2 |
| D970 | 8-719-987-63 | DIODE | 1N4148M |
| D971 | 8-719-987-63 | DIODE | 1N4148M |

< IC >

| | | | |
|---|---|---|---|
| IC1 | 8-759-169-99 | IC | SAA6579 |
| IC2 | 8-759-062-26 | IC | LC7073 |
| IC3 | 8-759-812-35 | IC | LA1235 |
| IC4 | 8-759-145-58 | IC | uPC4558C |
| IC306 | 8-759-634-50 | IC | M5218AL |
| IC401 | 8-759-112-93 | IC | uPC4570HA-1 |
| IC402 | 8-759-805-14 | IC | LC7822 |

**MAIN**

| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| | | < JACK > | |
| J401 | 1-580-825-11 | JACK, PIN 6P (PHONO/CD/TAPE1/DAT) | |
| J402 | 1-573-028-21 | JACK, PIN 4P (VIDEO/TAPE1/DAT) | |
| J403 | 1-691-887-11 | JACK, PIN 6P (VIDEO/TAPE2) | |
| | | < COIL > | |
| L1 | 1-410-521-11 | INDUCTOR 100uH | |
| L701 | 1-420-872-00 | COIL, AIR CORE | |
| L751 | 1-420-872-00 | COIL, AIR CORE | |
| | | < TRANSISTOR > | |
| Q402 | 8-729-141-30 | TRANSISTOR 2SC3623A-LK | |
| Q406 | 8-729-900-63 | TRANSISTOR DTA124ES | |
| Q408 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q452 | 8-729-141-30 | TRANSISTOR 2SC3623A-LK | |
| Q701 | 8-729-620-18 | TRANSISTOR 2SA979-FG | |
| Q702 | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA | |
| Q703 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q704 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q705 | 8-729-122-13 | TRANSISTOR 2SA1221-K | |
| Q706 | 8-729-209-15 | TRANSISTOR 2SD2012 | |
| Q707 | 8-729-195-82 | TRANSISTOR 2SC2958 | |
| Q712 | 8-729-020-72 | TRANSISTOR 2SD2438-OPY | |
| Q713 | 8-729-020-41 | TRANSISTOR 2SB1587-OPY | |
| Q714 | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA | |
| Q715 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q716 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q717 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q718 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q751 | 8-729-620-18 | TRANSISTOR 2SA979-FG | |
| Q752 | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA | |
| Q753 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q754 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q755 | 8-729-122-13 | TRANSISTOR 2SA1221-K | |
| Q756 | 8-729-209-15 | TRANSISTOR 2SD2012 | |
| Q757 | 8-729-195-82 | TRANSISTOR 2SC2958 | |
| Q762 | 8-729-020-72 | TRANSISTOR 2SD2438-OPY | |
| Q763 | 8-729-020-41 | TRANSISTOR 2SB1587-OPY | |
| Q764 | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA | |
| Q951 | 8-729-209-15 | TRANSISTOR 2SD2012 | |
| Q952 | 8-729-140-97 | TRANSISTOR KSA708 | |
| Q953 | 8-729-180-92 | TRANSISTOR 2SD809-K | |
| Q954 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q955 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q956 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q957 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q958 | 8-729-900-36 | TRANSISTOR DTC124ES | |
| Q959 | 8-729-904-39 | TRANSISTOR DTC114TS | |
| Q960 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |

| Ref.No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| | | < RESISTOR > | | | | |
| R1 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | F |
| R2 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| ⚠R3 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | F |
| R5 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | F |
| R8 | 1-249-426-11 | CARBON | 5.6K | 5% | 1/4W | |
| R10 | 1-247-862-11 | CARBON | 20K | 5% | 1/4W | |
| R302 | 1-247-887-00 | CARBON | 220K | 5% | 1/4W | |
| R303 | 1-247-887-00 | CARBON | 220K | 5% | 1/4W | |
| R305 | 1-249-416-11 | CARBON | 820 | 5% | 1/4W | F |
| R352 | 1-247-887-00 | CARBON | 220K | 5% | 1/4W | |
| R353 | 1-247-887-00 | CARBON | 220K | 5% | 1/4W | |
| R355 | 1-249-416-11 | CARBON | 820 | 5% | 1/4W | F |
| R401 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| R402 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R403 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R404 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | F |
| R405 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R407 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | F |
| R413 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R414 | 1-247-897-11 | CARBON | 560K | 5% | 1/4W | |
| R415 | 1-249-416-11 | CARBON | 820 | 5% | 1/4W | F |
| R416 | 1-247-897-11 | CARBON | 560K | 5% | 1/4W | |
| R417 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R418 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R419 | 1-247-897-11 | CARBON | 560K | 5% | 1/4W | |
| R420 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F (G) |
| R421 | 1-249-408-11 | CARBON | 180 | 5% | 1/4W | F |
| R425 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | F |
| R426 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R427 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R430 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R431 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | F |
| R432 | 1-247-883-00 | CARBON | 150K | 5% | 1/4W | |
| R434 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | F |
| R436 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R437 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R438 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R439 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R440 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R441 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | F |
| R444 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R451 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| R452 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R453 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R454 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | F |
| R455 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R457 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | F |
| R463 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R464 | 1-247-897-11 | CARBON | 560K | 5% | 1/4W | |

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

# MAIN

| Ref.No. | Part No. | Description | | | | | Remark |
|---|---|---|---|---|---|---|---|
| R465 | 1-249-416-11 | CARBON | 820 | 5% | 1/4W | F | |
| R466 | 1-247-897-11 | CARBON | 560K | 5% | 1/4W | | |
| R467 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | | |
| R468 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F | |
| R469 | 1-247-897-11 | CARBON | 560K | 5% | 1/4W | | |
| R470 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F | (G) |
| R471 | 1-249-408-11 | CARBON | 180 | 5% | 1/4W | F | |
| R481 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | F | |
| R486 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F | |
| R701 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F | |
| R702 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W | | |
| R703 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | | |
| R704 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | F | |
| R705 | 1-249-426-11 | CARBON | 5.6K | 5% | 1/4W | | |
| R706 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | F | |
| R707 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | F | |
| R708 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | | |
| ⚠R709 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | F | |
| ⚠R710 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | F | |
| R711 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | F | |
| R712 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | | |
| ⚠R713 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | F | |
| R714 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/4W | F | |
| R715 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | F | |
| ⚠R716 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | F | |
| ⚠R717 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F | |
| ⚠R718 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F | |
| ⚠R726 | 1-208-601-21 | WIREWOUND | 0.1 | 10% | 2W | F | |
| ⚠R727 | 1-208-601-21 | WIREWOUND | 0.1 | 10% | 2W | F | |
| R728 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F | |
| R729 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W | | |
| R730 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | | |
| R731 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | | |
| R732 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F | |
| R733 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | | |
| R734 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W | F | |
| ⚠R735 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | F | |
| ⚠R736 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | F | |
| R737 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F | |
| R738 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F | |
| R739 | 1-249-412-11 | CARBON | 390 | 5% | 1/4W | F | |
| R744 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | | |
| ⚠R745 | 1-249-399-11 | CARBON | 33 | 5% | 1/4W | F | |
| R746 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F | (G) |
| R747 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F | (G) |
| R748 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F | (G) |
| ⚠R749 | 1-249-399-11 | CARBON | 33 | 5% | 1/4W | F | |
| R751 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F | |
| R752 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W | | |
| R753 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | | |
| R754 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | F | |
| R755 | 1-249-426-11 | CARBON | 5.6K | 5% | 1/4W | | |
| R756 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | F | |
| R757 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | F | |
| R758 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | | |
| ⚠R759 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | F | |
| ⚠R760 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | F | |
| R761 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | F | |
| R762 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | | |
| ⚠R763 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | F | |
| R764 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/4W | F | |
| R765 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | F | |
| ⚠R766 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | F | |
| ⚠R767 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F | |
| ⚠R768 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F | |
| ⚠R776 | 1-208-601-21 | WIREWOUND | 0.1 | 10% | 2W | F | |
| ⚠R777 | 1-208-601-21 | WIREWOUND | 0.1 | 10% | 2W | F | |
| R778 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F | |
| R779 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W | | |
| R781 | 1-249-440-11 | CARBON | 82K | 5% | 1/4W | | |
| ⚠R785 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | F | |
| ⚠R786 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | F | |
| R787 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F | |
| R788 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F | |
| R794 | 1-249-412-11 | CARBON | 390 | 5% | 1/4W | F | |
| R796 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F | (G) |
| R797 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F | (G) |
| R798 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F | (G) |
| R799 | 1-249-412-11 | CARBON | 390 | 5% | 1/4W | F | |
| R801 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W | F | |
| R804 | 1-247-895-00 | CARBON | 470K | 5% | 1/4W | | |
| R851 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W | F | |
| R854 | 1-247-895-00 | CARBON | 470K | 5% | 1/4W | | |
| ⚠R950 | 1-215-908-00 | METAL OXIDE | 33 | 5% | 3W | F | |
| ⚠R951 | 1-215-908-00 | METAL OXIDE | 33 | 5% | 3W | F | |
| ⚠R952 | 1-247-743-11 | CARBON | 220 | 5% | 1/2W | F | |
| R953 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W | F | |
| R954 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | F | |
| ⚠R955 | 1-215-908-00 | METAL OXIDE | 33 | 5% | 3W | F | |
| ⚠R956 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | F | |
| R957 | 1-249-410-11 | CARBON | 270 | 5% | 1/4W | F | |
| R958 | 1-249-410-11 | CARBON | 270 | 5% | 1/4W | F | |
| R959 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | | |
| R960 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | | |
| ⚠R963 | 1-249-395-11 | CARBON | 15 | 5% | 1/4W | F | |
| R964 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | F | |
| R965 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | | |
| R966 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | | |
| R967 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | | |
| R968 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F | |

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

# MAIN | POWER | STAND BY | SP SW-1 | SP SW-2 | SP SW-3

| Ref.No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| R969 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R970 | 1-249-426-11 | CARBON | 5.6K | 5% | 1/4W | |
| R971 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R972 | 1-249-426-11 | CARBON | 5.6K | 5% | 1/4W | |
| R973 | 1-247-830-11 | CARBON | 910 | 5% | 1/4W | |
| R974 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | F |
| R999 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | F |
| | | < VARIABLE RESISTOR > | | | | |
| RV1 | 1-223-240-11 | RES, ADJ, CARBON 22K | | | | |
| | | < RELAY > | | | | |
| RY401 | 1-515-614-11 | RELAY | | | | |
| RY701 | 1-515-533-11 | RELAY | | | | |
| | | < TERMINAL > | | | | |
| TM1 | 1-537-488-11 | TERMINAL BOARD (ANT)(ANTENNA) | | | | |
| TM701 | 1-537-376-11 | TERMINAL BOARD (SP)(SPEAKERS) | | | | |
| | | < TUNER > | | | | |
| TU1 | 1-239-562-11 | ENCAPSULATED COMPONENT (G) | | | | |
| TU1 | 1-239-611-11 | ENCAPSULATED COMPONENT (AEP) | | | | |
| | | < VIBRATOR > | | | | |
| X1 | 1-579-900-21 | VIBRATOR, CRYSTAL (4.3MHz) | | | | |
| X2 | 1-577-358-21 | VIBRATOR, CERAMIC (4MHz) | | | | |
| ********** | | | | | | |
| * | 1-647-638-11 | POWER BOARD | | | | |
| | | ********** | | | | |
| | | < CAPACITOR > | | | | |
| ⚠C901 | 1-161-744-00 | CERAMIC | 0.01uF | | 400V | |
| C902 | 1-161-741-00 | CERAMIC | 0.001uF | 10% | 400V | (G) |
| C903 | 1-161-741-00 | CERAMIC | 0.001uF | 10% | 400V | (G) |
| C911 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V | (G) |
| C912 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V | (G) |
| | | < CONNECTOR > | | | | |
| * CNP901 | 1-564-321-00 | PIN, CONNECTOR 2P | | | | |
| * CNP902 | 1-580-230-11 | PIN, CONNECTOR (PC BOARD) 3P | | | | |
| * CNP903 | 1-580-230-11 | PIN, CONNECTOR (PC BOARD) 3P | | | | |
| * CNP951 | 1-564-507-11 | PLUG, CONNECTOR 4P | | | | |
| | | < DIODE > | | | | |
| D901 | 8-719-987-63 | DIODE 1N4148M | | | | |

| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| | | < FUSE > | |
| ⚠F902 | 1-532-259-00 | FUSE (T1.6A 250V) | |
| ⚠F903 | 1-532-259-00 | FUSE (T1.6A 250V) | |
| | | < FUSE HOLDER > | |
| FH952 | 1-533-293-31 | HOLDER, FUSE | |
| | | < RELAY > | |
| RY901 | 1-515-720-11 | RELAY | |
| | | < TRANSFORMER > | |
| ⚠T902 | 1-450-358-11 | TRANSFORMER, POWER | |
| ********** | | | |
| * | 1-647-639-11 | STAND BY BOARD | |
| | | ********** | |
| | | < CONNECTOR > | |
| * CNP107 | 1-565-295-11 | PLUG, CONNECTOR 4P | |
| | | < SWITCH > | |
| S137 | 1-554-303-21 | SWITCH, TACTILE (POWER) | |
| ********** | | | |
| * | 1-647-633-11 | SP SW-1 BOARD | |
| | | ********** | |
| | | < CONNECTOR > | |
| CNP702 | 1-691-173-11 | CONNECTOR (BOARD TO BOARD) 3P | |
| | | < SWITCH > | |
| S701 | 1-571-485-11 | SWITCH, PUSH (2 KEY)(SPEAKERS) | |
| ********** | | | |
| * | 1-647-634-11 | SP SW-2 BOARD | |
| | | ********** | |
| ********** | | | |
| * | 1-647-635-11 | SP SW-3 BOARD | |
| | | ********** | |
| | | < CONNECTOR > | |
| CNP701 | 1-573-109-11 | PIN, CONNECTOR 15P | |
| ********** | | | |

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

# TONE | TRANSFORMER | VOLUME

| Ref.No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| * | 1-647-632-11 | TONE BOARD | | | | |
| | | ********** | | | | |
| | | < CAPACITOR > | | | | |
| C501 | 1-130-489-00 | MYLAR | 0.033uF | 5% | 50V | |
| C502 | 1-124-250-00 | ELECT | 0.15uF | 20% | 50V | |
| C503 | 1-130-481-00 | MYLAR | 0.0068uF | 5% | 50V | |
| C504 | 1-137-441-91 | FILM | 0.027uF | 5% | 50V | |
| C551 | 1-130-489-00 | MYLAR | 0.033uF | 5% | 50V | |
| C552 | 1-124-250-00 | ELECT | 0.15uF | 20% | 50V | |
| C553 | 1-130-481-00 | MYLAR | 0.0068uF | 5% | 50V | |
| C554 | 1-137-441-91 | FILM | 0.027uF | 5% | 50V | |
| | | < CONNECTOR > | | | | |
| * CNP109 | 1-566-968-11 | HOUSING, CONNECTOR(PC BOARD)6P | | | | |
| | | < RESISTOR > | | | | |
| R501 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R502 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W | F |
| R507 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W | F |
| R508 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W | |
| R509 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W | |
| R510 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W | |
| R551 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R552 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W | F |
| R557 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W | F |
| R558 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W | |
| R559 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W | |
| R560 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W | |
| | | < VARIABLE RESISTOR > | | | | |
| RV401 | 1-223-362-11 | RES, VAR, CARBON 100K/100K (BALANCE) | | | | |
| RV402 | 1-223-363-11 | RES, VAR, CARBON 125K/125K (TREBLE) | | | | |
| RV403 | 1-238-965-21 | RES, VAR, CARBON 100K/100K (BASS) | | | | |
| ********** | | | | | | |
| * | 1-647-631-11 | TRANSFORMER BOARD | | | | |
| | | ********** | | | | |
| | | < CAPACITOR > | | | | |
| ⚠C921 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V (G) | |
| ⚠C922 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V (G) | |
| | | < CONNECTOR > | | | | |
| * CNP955 | 1-564-243-00 | PIN, CONNECTOR 6P | | | | |
| ********** | | | | | | |

| Ref.No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| * | A-4360-428-A | VOLUME BOARD, COMPLETE | | | | |
| | | ********** | | | | |
| | | < CAPACITOR > | | | | |
| C436 | 1-137-371-11 | FILM | 0.015uF | 5% | 50V | |
| C438 | 1-124-927-11 | ELECT | 4.7uF | 20% | 100V | |
| C439 | 1-124-927-11 | ELECT | 4.7uF | 20% | 100V | |
| C486 | 1-137-371-11 | FILM | 0.015uF | 5% | 50V | |
| C505 | 1-162-206-31 | CERAMIC | 20PF | 5% | 50V | |
| C506 | 1-124-925-11 | ELECT | 2.2uF | 20% | 100V | |
| C507 | 1-162-196-31 | CERAMIC | 5.6PF | 10% | 50V | |
| C508 | 1-123-382-00 | ELECT | 3.3uF | 20% | 100V | |
| C511 | 1-124-464-11 | ELECT | 0.22uF | 20% | 50V | |
| C513 | 1-123-382-00 | ELECT | 3.3uF | 20% | 100V | |
| C516 | 1-124-477-11 | ELECT | 47uF | 20% | 25V | |
| C517 | 1-124-477-11 | ELECT | 47uF | 20% | 25V | |
| C555 | 1-162-206-31 | CERAMIC | 20PF | 5% | 50V | |
| C556 | 1-124-925-11 | ELECT | 2.2uF | 20% | 100V | |
| C557 | 1-162-196-31 | CERAMIC | 5.6PF | 10% | 50V | |
| C558 | 1-123-382-00 | ELECT | 3.3uF | 20% | 100V | |
| C563 | 1-123-382-00 | ELECT | 3.3uF | 20% | 100V | |
| | | < CONNECTOR > | | | | |
| * CNP103 | 1-750-383-11 | CONNECTOR, BOARD TO BOARD 11P | | | | |
| * CNP401 | 1-566-971-11 | PIN, CONNECTOR (PC BOARD) 6P | | | | |
| * CNP402 | 1-566-972-11 | PIN, CONNECTOR (PC BOARD) 7P | | | | |
| | | < DIODE > | | | | |
| D404 | 8-719-987-63 | DIODE 1N4148M | | | | |
| | | < IC > | | | | |
| IC403 | 8-759-112-93 | IC uPC4570HA-1 | | | | |
| | | < TRANSISTOR > | | | | |
| Q404 | 8-729-202-67 | TRANSISTOR 2SK246-GR3 | | | | |
| Q454 | 8-729-202-67 | TRANSISTOR 2SK246-GR3 | | | | |
| | | < RESISTOR > | | | | |
| R445 | 1-247-858-11 | CARBON | 13K | 5% | 1/4W | |
| R495 | 1-247-858-11 | CARBON | 13K | 5% | 1/4W | |
| R503 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R504 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W | |
| R505 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W | |
| R506 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R511 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R513 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W | |
| R514 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | F |
| R515 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | F |
| R553 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |

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Replace only with part number specified.

| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| R554 | 1-249-431-11 | CARBON 15K 5% 1/4W | |
| R555 | 1-249-438-11 | CARBON 56K 5% 1/4W | |
| R556 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| | | < VARIABLE RESISTOR > | |
| RV701 | 1-241-850-11 | RES, VAR, CARBON 100K/100K (VOLUME) | |
| | | ********** | |
| | | MISCELLANEOUS | |
| | | ********** | |
| 10 | 1-696-456-11 | WIRE (FLAT TYPE) (31 CORE) | |
| ⚠63 | 1-575-651-11 | CORD, POWER | |
| 65 | 1-750-854-11 | CORD (WITH CONNECTOR) | |
| ⚠CNJ903 | 1-526-794-11 | OUTLET, AC (AC OUTLET) | |
| ⚠F902 | 1-532-259-00 | FUSE (T1.6A 250V) | |
| ⚠F903 | 1-532-259-00 | FUSE (T1.6A 250V) | |
| * FH952 | 1-533-293-11 | HOLDER, FUSE | |
| FL300 | 1-517-141-11 | INDICATOR TUBE, FLUORESCENT | |
| ⚠T901 | 1-450-363-11 | TRANSFORMER, POWER | |
| | | ********** | |
| | | ACCESSORIES & PACKING MATERIALS | |
| | | ********** | |
| | 1-465-423-11 | REMOTE COMMANDER (RM-S103) | |
| | 1-501-374-11 | ANTENNA, LOOP | |
| | 1-501-594-11 | ANTENNA (FM) (AEP) | |
| | 2-181-754-01 | COVER (MLY), BATTERY | |
| | 3-756-537-11 | MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, DUTCH) (AEP) | |
| | 3-756-537-41 | MANUAL, INSTRUCTION (GERMAN) (G) | |
| | 3-756-537-51 | MANUAL, INSTRUCTION (SPANISH, SWEDISH, DANISH, FINNISH) (AEP2) | |
| * | 4-952-676-01 | CUSHION | |
| * | 4-957-780-01 | INDIVIDUAL CARTON | |
| | | ********** | |
| | | ********** | |
| | | HARDWARE LIST | |
| | | ********** | |
| #1 | 7-682-548-04 | SCREW +BVTT 3X8 (S) | |
| #2 | 7-682-548-09 | SCREW +BVTT 3X8 (S) | |
| #3 | 7-682-547-09 | SCREW +BVTT 3X6 (S) | |
| #4 | 7-682-560-04 | SCREW +BVTT 4X6 (S) | |
| #5 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S | |
| #6 | 7-685-647-79 | SCREW +BVTP 3X10 TYPE2 IT-3 | |
| #7 | 7-621-849-00 | SCREW, TAPPING | |

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

9-957-979-11

Sony Corporation
Audio Group



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